Agilent 7890 GC Control Driver Release Notes

Scion Instruments
1 Bain Square
Livingston, EH547DQ
United Kingdom

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Introduction of the driver (4.0.0)

The Agilent 7890 GC CompassCDS control driver software requires CompassCDS version 3.0.1 or above (the CompassCDS versions 2.0 and 3.0 are not supported).

The Agilent 7890 GC can be controlled, via Ethernet, by CompassCDS software if the GC has the following firmware versions:

- 7890A GC: A.01.12; A.01.12.1; A.01.15.2
- 7890B GC: B.02.00; B.02.02

Supported configurations

- Inlets:

  Split/splitless capillary inlet (S/SL)

  Temperature-programmable cool on-column inlet (PCOC)

  Purge Packed inlet (PP)

  Multi Mode inlet (MMI)

- Detectors:

  Flame ionization detector (FID)

  Thermal conductivity detector (TCD)

  Electron capture detector (ECD)

  Nitrogen Phosphorous detector (NPD)

  Flame Photometric detector (FPD)

- Autosampler:

  Automatic liquid sampler (ALS) type 7683 (G2913A and G2613A) including the 100 vials tray

  Automatic liquid sampler (ALS) type 7693 (G4513A) including the 150 vials tray (G4514A)

  The Standard, Sandwich injection and Large Volume injection (LVI) modes are supported with the 7693 Autosampler

- The Oven Cryogenic coolant is controlled
- PCM (Pressure Control Module) is controlled
- Multi injector, multi detector: CompassCDS can control any 2 auto sampler, 2 Inlet, 2 detector configuration as long as the configuration consists of the elements described above.
- Valves. Eight valves can be controlled. Among them we support the Gas Sampling valve, the Switching valve and the Multi-position valve.

- Aux detector 1 (TCD) and Aux detector 2 (AIB) are supported (see Known problems part below about the auxiliary detectors.)
- Auxiliary heaters. Three auxiliary heaters can be controlled, among the ones proposed by the GC (AED transfer line, user configurable, Nickel Catalyst, etc.).
- The Auxiliary EPCs are controlled
- The Gas saver option working with a manual injector
- Run time events.

Known issues

- The 1µL syringe is not supported due to a CompassCDS core defect.
- If the syringe size is changed in the GC, the user needs to exit CompassCDS session, and then to enter in the system configuration for the software to pick up the new syringe size, and then, stop/start the system.

  Moreover, new methods that match the new syringe size limits of the injection volume field in the acquisition part of the method will need to be created.
- The BEAD Voltage parameter is controlled by the driver for the NPD detector. The value has to be set on the GC itself.
- If adding auxiliary detector(s) to an existing system, new channel(s) will be automatically declared in CompassCDS Configuration Manager. The previous methods (created on the previous system configuration) will no longer be compatible, as a method is created for a system with a defined number of channels. To use those methods the new channels must be disconnected from within the CompassCDS Configuration Manager.